

D6

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:  
23.05.2001 Bulletin 2001/21

(51) Int Cl.7: G06K 19/10

(21) Application number: 00114935.0

(22) Date of filing: 18.07.2000

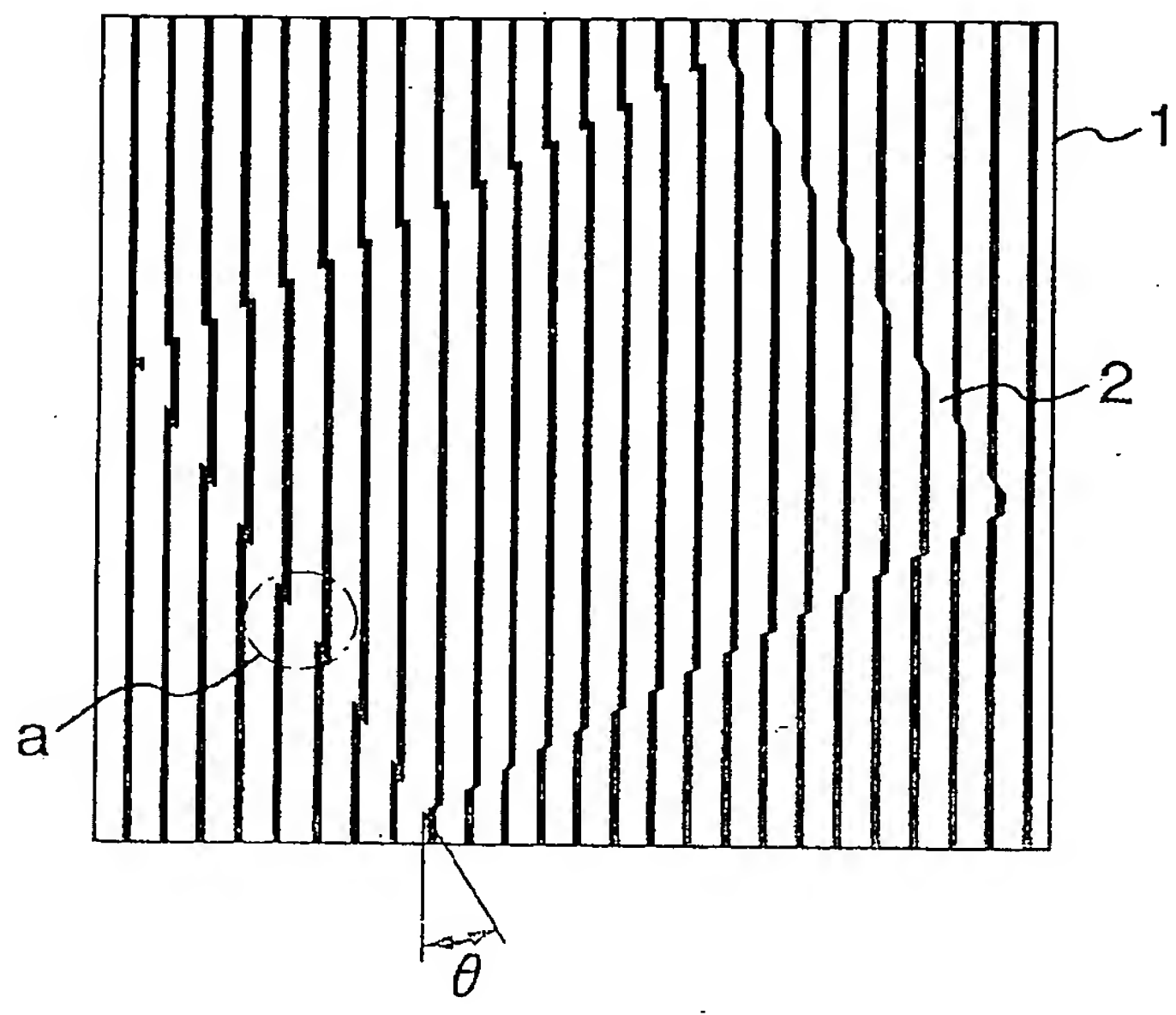
<div>(84) Designated Contracting States: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE Designated Extension States: AL LT LV MK RO SI</div> <div>(30) Priority: 16.11.1999 JP 32504699</div> <div>(71) Applicant: Hitachi, Ltd. Chiyoda-ku, Tokyo 101-8010 (JP)</div>	<div>(72) Inventors:<ul style="list-style-type: none"><li>• Yamashita, Taichiro, Hitachi, Ltd., Int. Prop. Gp. Chiyoda-ku, Tokyo 100-8220 (JP)</li><li>• Shibuya, Takeshi, Hitachi, Ltd., Int. Prop. Gp. Chiyoda-ku, Tokyo 100-8220 (JP)</li><li>• Matsuno, Junichi, Hitachi, Ltd., Int. Prop. Gp. Chiyoda-ku, Tokyo 100-8220 (JP)</li></ul></div> <div>(74) Representative: Beetz &amp; Partner Patentanwälte Steinsdorfstrasse 10 80538 München (DE)</div>
--	--

(54) Printed matter including invisible information

(57) To invisibly embed additional information in a base pattern and to visualize the additional information, a dislocation is provided in a boundary between the base pattern (1) composed of striped thin lines and the additional information pattern (2) composed of striped

thin lines. This dislocation makes the stripes of the patterns discontinuous. The additional information pattern is invisibly embedded in the base pattern such that a sequence of dislocations in the stripes forming the boundary is at an angle equal to or larger than a predetermined angle with respect to the stripe direction.

FIG. 1



EP 1 102 208 A2